

Explosion Isolation Flap Valve CARZ-NS Ø160-250mm

Explosion Isolation Flap Valve CARZ-NS - protective system for combustible dust applications

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Explosion Isolation Flap Valve type CARZ-NS prevents a transmission of explosion pressure wave and flames front from the filter to your workplace. By using our CARZ-NS Explosion Isolation Flap Valve, you reduce the risk from dust explosion for both people and equipment.

Function

During normal operation, the valve is kept open, and large opening angle ensure low pressure drop. In case of an explosion in the filter, the pressure wave will force to close the flap plate and lock in position. When flap plate is closed it makes an effective barrier against approaching flame front. This prevent the explosion from being transmitted from the filter to upstream work areas.

No matter what industry you are in or what type of dust is generated in your factory, we can provide the complete dust explosion protection solution of filters, and explosion isolation flap valves.

- Independently tested to latest and most stringent standards and regulations
- Compliant with international dust explosion protection codes (ATEX, NFPA69, IECEx)
- Widest range of sizes, applications and filter system configurations on the market (e.g. approval for positive and negative pressure systems, approval for metal dust, approval for St2 dust)
- Manufactured fully by Nederman under certified quality assurance system, ensuring highest level of quality and reliability

Product name	Explosion Isolation Flap Valve CARZ-NS Ø160-250mm
Material	Welded carbon steel, painted RAL5009
Operating temperature range	-20 - +70°C (0 - 160 F)
Ambient temperature range	-20 - +60°C (0 - 140 F)
Note	Organic dust - PUSH & PULL; metal dust - PULL only
Explosion Class ATEX	St2
Dust Concentration in duct	organic dust: Any; metal dust: < LEL
Max velocity in duct (m/s)	35
Minimum velocity in duct	0
Minimum vessel size, push (m ³)	0,46
Install type	Push and Pull
Minimum vessel size, pull (m ³)	0,46
Dust type	[metallorganic]
Kst (bar m/s)	organic dust: 300; metal dust: 260
Maximum reduced pressure, Pred (bar)	0,5





















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Diameter (in)	Connection	Model
160	FL	73008486*
180	FL	73008487*
200	FL	73008488*
160	QF	73008219*
160	FL	73008218*
160	NW	73008220*
180	QF	73008399*
180	FL	73008398*
180	NW	73008400*
200	QF	73008402*
200	FL	73008401*
200	NW	73008403*
250	QF	73008405*
250	FL	73008404*
250	FL	73008489*
250	NW	73008406*

*Organic dust - PUSH & PULL; metal dust - PULL only

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	Accessory	Part No
	CARZ support frame suspended 160	73001558
	CARZ support frame suspended 180	73001559
	CARZ support frame suspended 200	73001560
	CARZ support frame suspended 315	73001562
	CARZ support frame suspended 500	73001566
	CARZ support frame suspended 710	73001569
	Carz support frame suspended 900	73001571
	CARZ support frame suspended 1000	73001572
	CARZ support frame wall-hanging 160	73001573
	CARZ support frame wall-hanging 180	73001574
	CARZ support frame wall-hanging 200	73001575
	CARZ support frame wall-hanging 250	73001576
	CARZ support frame wall-hanging 315	73001577
	CARZ support frame wall-hanging 350	73001578
	CARZ support frame wall-hanging 400	73001579
	CARZ support frame wall-hanging 450	73001580
	CARZ support frame wall-hanging 500	73001581
	CARZ support frame wall-hanging 560	73001582
	CARZ support frame wall-hanging 900	73001586
	CARZ support frame wall-hanging 1000	73001587

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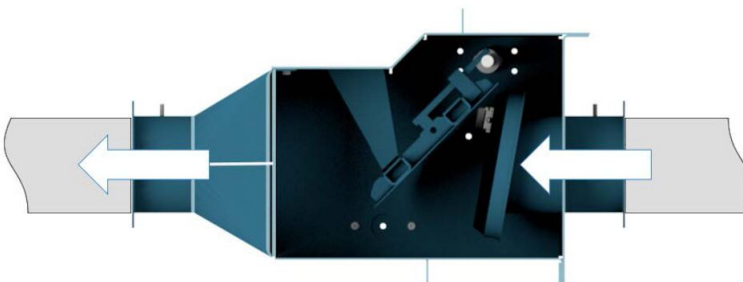
Patent protected product:

- EP patent: EP 3 343 077
- USA: US 10 315 059
- China: 201711349554.2

Patent protected product



Explosion direction



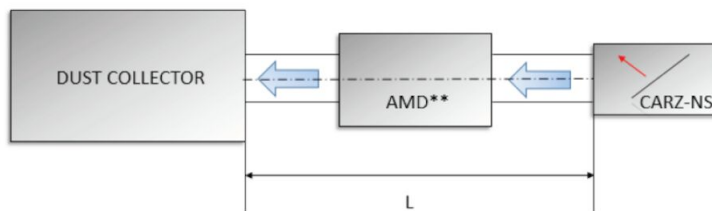
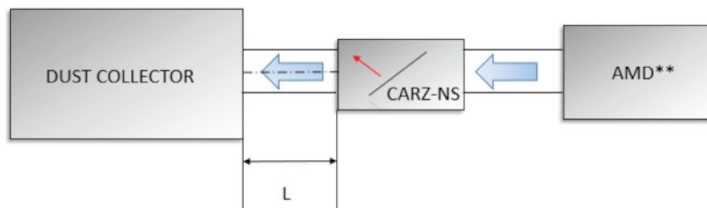
Suction direction

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PULL configuration

**AMD = Air moving device or fan



PUSH configuration

**AMD = Air moving device or fan